



AVOX Systems

Assemblies  
Cylinder, Regulator, Valve

## Altitude Compensating Oxygen Regulator

P/N 803333-01



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The AVOX Systems 803333-01 Altitude Compensating Oxygen Regulator provides a highly accurate way to ensure delivery of the required amount of oxygen to face masks in constant flow aircraft oxygen systems at altitudes from sea level to 40,000 ft.

Sensing each slight variation in cabin altitude, a built-in aneroid triggers the required increase in oxygen flow for higher altitudes and the required decrease for lower altitudes.

This regulator is normally paired with a 50-80 psig pressure reducer.

### Outstanding Features

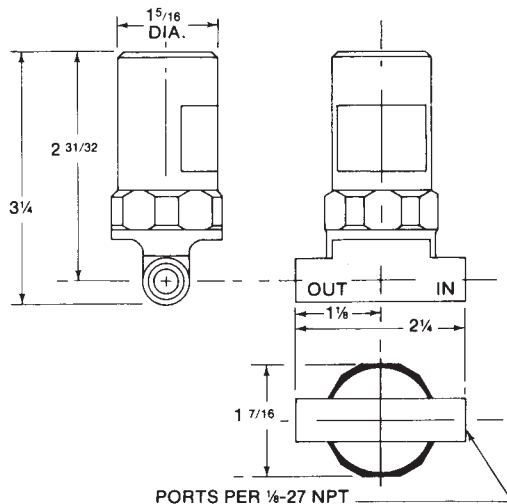
- Effective from sea level to 40,000 ft.
- Ambient temperature range from -65°F to +160°F
- Weight saving, space saving design features maximum weight of only 0.4 lbs.





| Specifications             |  |
|----------------------------|--|
| Model:                     | 803333-01  |
| Service Medium:            | Aviator's Breathing Oxygen per MIL-PRF-27210, Type 1   |
| Inlet Operating Pressure:  | 50-80 psig   |
| Altitude Operating Range:  | Sea Level to 40,000 ft.  |
| Ambient Temperature Range: | -65°F to +160°F  |
| Inlet/Outlet Ports:        | Per 1/8-27 NPT   |
| Weight:                    | 0.4 lbs. max.  |
| Flow Requirements:         | FAR 23.1443 to 30,000 ft. when used with AVOX 802039-03 Plug-In<br>FAR 23.1443 to 40,000 ft. when used with AVOX 365-30-3 Valve Assembly |

### Outline Dimensions



### Pressure vs. Altitude

| Altitude Feet Above Sea Level | Outlet Pressure PSIA |
|-------------------------------|----------------------|
| 0                             | 22.0 ± 3.5           |
| 10,000                        | 22.0 ± 3.5           |
| 14,000                        | 26.2 ± 3.5           |
| 17,000                        | 29.2 ± 3.5           |
| 20,000                        | 31.2 ± 3.5           |
| 30,000                        | 38.2 ± 3.5           |
| 40,000                        | 43.0 +3.5 / -2.5     |

### WARNING

IMPROPER USE OR MAINTENANCE OF THIS DEVICE MAY RESULT IN INJURY OR DEATH.

ANY SERVICE OR OVERHAUL SHALL BE DONE ONLY BY THOSE FACILITIES EXPERIENCED IN, OR BY PERSONNEL KNOWLEDGEABLE IN, HIGH PRESSURE AVIATION OXYGEN.

CONTACT AVOX SYSTEMS OR ITS DISTRIBUTORS FOR NAMES OF AUTHORIZED SERVICE CENTERS. PERSONNEL SHOULD RECEIVE PROPER TRAINING PRIOR TO USING THIS EQUIPMENT. UNIT SHALL BE USED WITH AVIATOR'S BREATHING OXYGEN PER MIL-PRF-27210.